UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Prior(Closed) Authorization : FCC WEB Reproduction

Unofficial Copy

Name: KYMETA CORPORATION

Call Sign: E170070
File Number: SES-LIC-20170223-00195

Authorization Type: License
Non Common Carrier **Grant Date:** 08/24/2017 **Expiration Date:** 08/24/2032

Nature of Service: Earth Stations on-board Vessels
Fixed Satellite Service
Vehicle Mounted Earth Station

Class of Station: Earth Stations on-board

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	VMES	US&P			0.0	NA	
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.					
2)	ESV	US territorial and international waters			0.0	NA	
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.					
3)	VSAT	US&P			0.0	NA	
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.					

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning Thursday, August 24, 2017 (3 AM Eastern Standard Time) and ending Tuesday, August 24, 2032 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Friday, August 24, 2018 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.
The General Provision 1900 applies to all transmitting frequency bands.
For the text of these provisions, refer to Section H.

#	Frequency	Polarization	Emission	Tx/Rx Mode	Max EIRP /Carrier	Max EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000 - 14500.0000	H,V,L,R	6M96G1D	T	43.00	10.58	KyWay 1	Data	
2)	14000.0000 - 14500.0000	H,V,L,R	5M00G1D	T	43.00	12.02	KyWay 1	Data	
3)	14000.0000 - 14500.0000	H,V,L,R	3M48G1D	T	43.00	13.59	KyWay 1	Data	
4)	14000.0000 - 14500.0000	H,V,L,R	3M00G1D	T	43.00	14.23	KyWay 1	Data	
5)	14000.0000 - 14500.0000	H,V,L,R	2M00G1D	T	43.00	16.00	KyWay 1	Data	
6)	14000.0000 - 14500.0000	H,V,L,R	1M50G1D	T	43.00	17.24	KyWay 1	Data	
7)	14000.0000 - 14500.0000	H,V,L,R	611KG1D	T	43.00	21.14	KyWay 1	Data	

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8) 11700.0000 - 12200.0000	H,V,L,R	36M0G1D	R	KyWay 1	Data
9) 11700.0000 - 12200.0000	H,V,L,R	1M50G1D	R	KyWay 1	Data
10) 11450.0000 - 11700.0000	H,V,L,R	36M0G1D	R	KyWay 1	Data
11) 11450.0000 - 11700.0000	H,V,L,R	1M50G1D	R	KyWay 1	Data
12) 10950.0000 - 11200.0000	L,R	1M50G1D	R	KyWay 1	Data
13) 10950.0000 - 11200.0000	H,V,L,R	36M0G1D	R	KyWay 1	Data

C) Frequency Coordination

#	Frequency Limits(MHz)	Satellite Arc (Deg. Long.) East Limit	Satellite Arc (Deg. Long.) West Limit	Elevation (Degrees) East Limit	Elevation (Degrees) West Limit	Azimuth (Degrees) East Limit	Azimuth (Degrees) West Limit	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
1)	14000.0000 - 14500.0000		-						KyWay 1
2)	11700.0000 - 12200.0000		-						KyWay 1
3)	11450.0000 - 11700.0000		-						KyWay 1
4)	10950.0000 - 11200.0000		-						KyWay 1

D) Point of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

1) VMES to Permitted Space Station List

2) ESV to Permitted Space Station List

3) VSAT to Permitted Space Station List

E) Antenna Facilites

Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
ESV	KyWay 1	1000	0.7	Kymeta Corporation	Type 1	0.0	0.0 AGL/ 0.0 AMSL	

Max Gains(s):

Maximum total input power at antenna flange (Watts) = 8.0

Maximum aggregate output EIRP for all carriers (dBW)43.0

VSAT	KyWay 1	5000	0.7	Kymeta Corporation	Type 1	0.0	0.0 AGL/ 0.0 AMSL	

Max Gains(s):

Maximum total input power at antenna flange (Watts) = 8.0

Maximum aggregate output EIRP for all carriers (dBW)43.0

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VMES	KyWay 1	5000	0.7	Kymeta Corporation Type 1	0.0	0.0 AGL/ 0.0 AMSL	

Max Gains(s):33.0 dBi @ 14.5000 GHz 32.9 dBi @ 14.0000 GHz 32.4 dBi @ 14.0000 GHz 32.8 dBi @ 12.2000 GHz 31.9 dBi @ 11.2000 GHz 32.3 dBi @ 11.4500 GHz 26.5 dBi @ 10.9500 GHz

Maximum total input power at antenna flange (Watts) = 8.0Maximum aggregate output EIRP for all carriers (dBW)43.0

F) Remote Control

VMES	12277 134th Court NE, Suite 100 Redmond, King, WA, 98052 (206) 902-6888	**Call Sign:**	N/A
ESV	12277 134th Court NE, Suite 100 Redmond, King, WA, 98052 (206) 902-6888	**Call Sign:**	N/A
VSAT	12277 134th Court NE, Suite 100 Redmond, King, WA, 98052 (206) 902-6888	**Call Sign:**	N/A

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

4	Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (IBFS) in the "Other Filings" tab within 10 days of the change.
6604	Antenna elevation for all operations must be at least 5 degrees above the geographic horizon.
6609	The licensee must comply with any pertinent limits and provisions established by the International Telecommunication Union to protect other services allocated internationally.
90003	The licensee shall not operate in the band 14.0-14.2 GHz within 125 km of the NASA TDRSS facilities on: Guam (latitude 13°36'55" N, longitude 144°51'22" E); White Sands, New Mexico (latitude 32°20'59" N, longitude 106°36'31" W and latitude 32°32'40" N, longitude 106°36'48" W); Blossom Point, Maryland (latitude 38° 25' 44" N.L., longitude 77° 05' 02" W.L.) unless and until it enters into an agreement with NASA that NTIA has approved. The licensee must conform its operations to the terms of any coordination agreement with NASA and must file a copy of the agreement with the Commission within 30 days of execution. Upon receipt of such notification from a licensee, the International Bureau will issue a public notice stating that the licensee may commence operations within the coordination zone in 30 days if no party has opposed the operations.
90014	The licensee shall not operate in the band 14.47-14.50 GHz within (a) 45 km of the radio observatory on St. Croix, Virgin Islands (located at latitude 17º46 N, longitude 64º35 W); (b) 125 km of the radio observatory on Mauna Kea, Hawaii (located at latitude 19º48 N, longitude 155º28 W); and (c) 90 km of the Arecibo Observatory on Puerto Rico (located at latitude 18º2046 W, longitude 66º4511 N) unless and until the licensee enters into an agreement with the National Science Foundation that has been approved by NTIA. The licensee must conform its operations to the terms of any coordination agreement with the National Science Foundation and must file a copy of the agreement with the Commission within 30 days of execution.
90017	The licensee shall not operate in the vicinity of radio observatories of Radio Astronomy Service (RAS) in the band 14.47-14.50 GHz unless and until the licensee enters into an agreement with the National Science Foundation that has been approved by NTIA. The licensee must conform its operations to the terms of any coordination agreement with the National Science Foundation and must file a copy of the agreement with the Commission within 30 days of execution. The appropriate NSF contact point to initiate coordination is Electromagnetic Spectrum Manager, NSF, 4201 Wilson Blvd., Suite 1045, Arlington, VA 22203, fax 703-292-9034, e-mail esm@nsf.gov. See also a list of each applicable RAS site, its location, and the applicable coordination zone on Table-1: Applicable RAS Facilities and Associated Coordination Distances, 47 C.F.R. 25.226(d)(2).

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H) Special and General Provisions

90285 Operations in international waters and in territorial waters of other countries must be in compliance with the applicable laws, regulations, and licensing procedures of other countries, as well as with the conditions of this authorization.

90398 Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)

90399 The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

900407 The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

3600-4200 MHz (space-to-Earth)
5850-6725 MHz (Earth-to-space)
10.95-11.2 GHz (space-to-Earth)
11.45-12.2 GHz (space-to-Earth)
13.75-14.5 GHz (Earth-to-space)
18.3-18.8 GHz (space-to-Earth)
19.7-20.2 GHz (space-to-Earth)
24.75-25.25 GHz (Earth-to-space)
28.35-28.6 GHz (Earth-to-space)
29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.

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H) Special and General Provisions

B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulates is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993". These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.